1. Record Nr. UNIORUON00495170

Autore	DE_LOLLIS, Cesare
Titolo	Cristoforo Colombo / Cesare De Lollis
Pubbl/distr/stampa	Torriana, : Orsa Maggiore, [1991]
ISBN	88-239-0237-1
Descrizione fisica	254 p. ; 22 cm.
Disciplina	910
Soggetti	COLOMBO CRISTOFORO - Biografia
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910337946503321

Titolo	The Eggplant Genome / / edited by Mark A. Chapman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-99208-2
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (228 pages)
Collana	Compendium of Plant Genomes, , 2199-4781
Disciplina	572.862
Soggetti	Plant genetics Plant breeding Agriculture Plant Genetics and Genomics Plant Breeding/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Economic/Academic importance -- Botanical descriptions/cytology --

Classical genetics and traditional breeding -- Genetic basis of nutrition -- Molecular mapping - comparison to other crops -- Molecular mapping of genes & QTLs/Association Mapping -- Structural & functional genomic resources developed -- The draft genome -- Background history of the genome initiatives. Strategies for sequencing -- Repetitive sequences, gene annotation, gene families, genome duplication -- Synteny with allied & model genomes -- Other domesticated eggplants -- Domestication genomics -- Impact on germplasm characterization & gene discovery -- Impact on plant breeding -- Future prospects.

Sommario/riassunto

The book discusses the importance of eggplant (Solanum melongena L.) as a crop, highlighting the potential for eggplant to serve as a model for understanding several evolutionary and taxonomic questions. It also explores the genomic make-up, in particular in comparison to other Solanaceous crops, and examines the parallels between eggplant and tomato domestication as well as between the most common eggplant species and two related eggplants native to Africa (Ethiopian eggplant [Solanum aethiopicum L.] and African eggplant [Solanum macrocarpon L.]). The eggplant genome was first sequenced in 2014, and an improved version was due to be released in 2017. Further investigations have revealed the relationships between wild species, domesticated eggplant, and feral weedy eggplant (derived from the domesticate), as well as targets of selection during domestication. Parallels between eggplant and tomato domestication loci are well known and the molecular basis is currently being investigated. Eggplant is a source of nutrition for millions of people worldwide, especially in Southeast Asia where it is a staple food source. Domesticated in the old world, in contrast to its congeners tomato and potato, the eggplant is morphologically and nutritionally diverse. The spread of wild eggplants from Africa is particularly interesting from a cultural point of view. This book brings together diverse fields of research, from bioinformatics to taxonomy to nutrition to allow readers to fully understand eggplant’s importance and potential.